

**Valve metal oxide powders and process for the production thereof**

**Abstract**

A process for the production of a valve metal oxide powder, in particular an  $\text{Nb}_2\text{O}_5$  or  $\text{Ta}_2\text{O}_5$  powder by continuous reaction of a fluoride-containing valve metal compound with a base in the presence of water and calcination of the resultant product, wherein the reaction is performed in just one reaction vessel and at a temperature of at least  $45^\circ\text{C}$ . Valve metal oxide powders obtainable in said manner which exhibit a spherical morphology, a  $D_{50}$  value of 10 to  $80\ \mu\text{m}$  and an elevated BET surface area.

(Fig. 2)